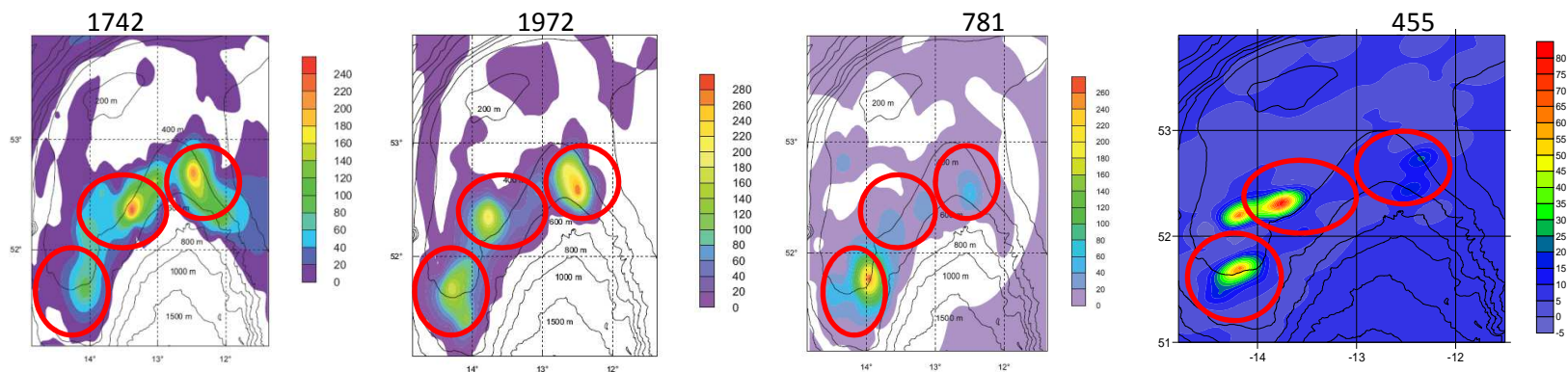


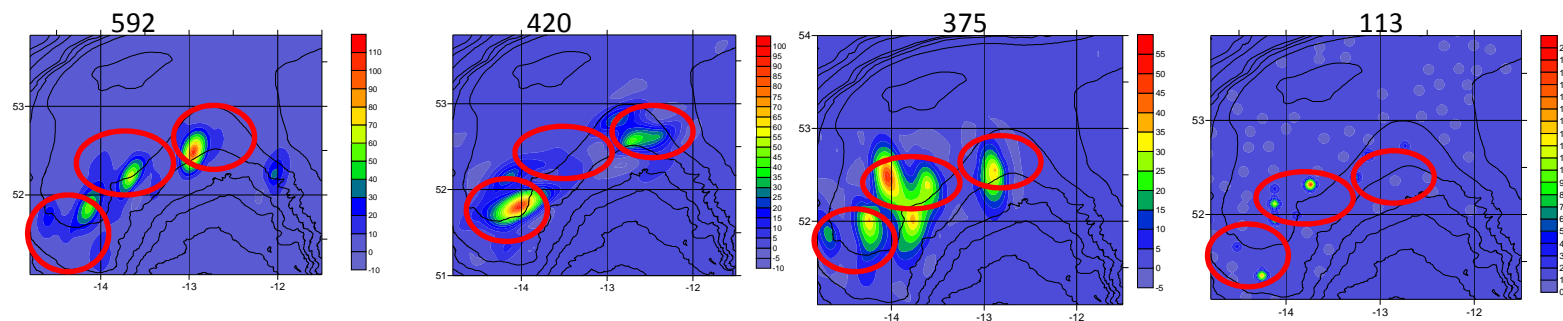
**Porcupine Bank (FU 16) Norway
lobster (*Nephrops norvegicus*)
distribution and biological data –
Spanish Porcupine Survey (2001-
2012)**

González Herraiz, I.; Fariña, C.; Velasco, F.
Instituto Español de Oceanografía (IEO)
Spain

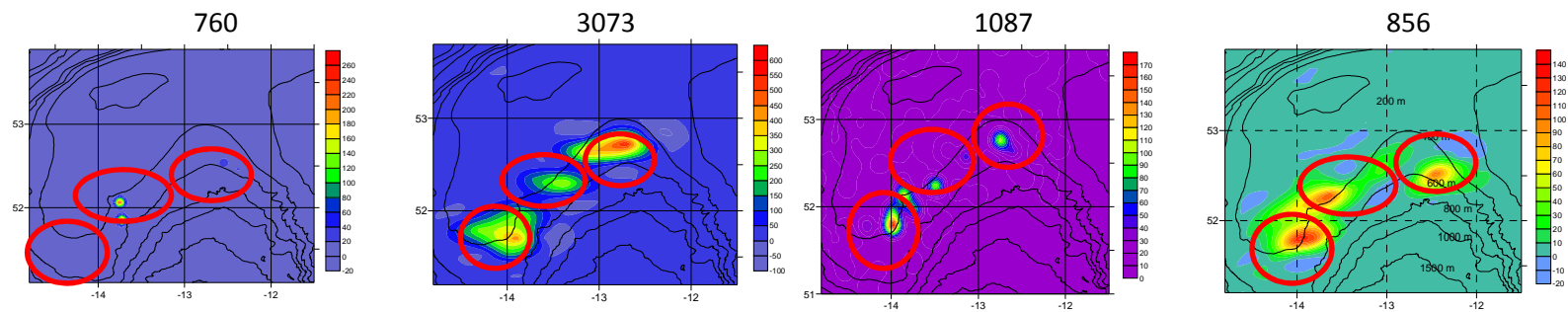
2001 - 2004



2005 - 2008



2009 - 2012



MEAN SIZE GRADIENT IN 2001, 2002 AND 2003. NOT IN 2010

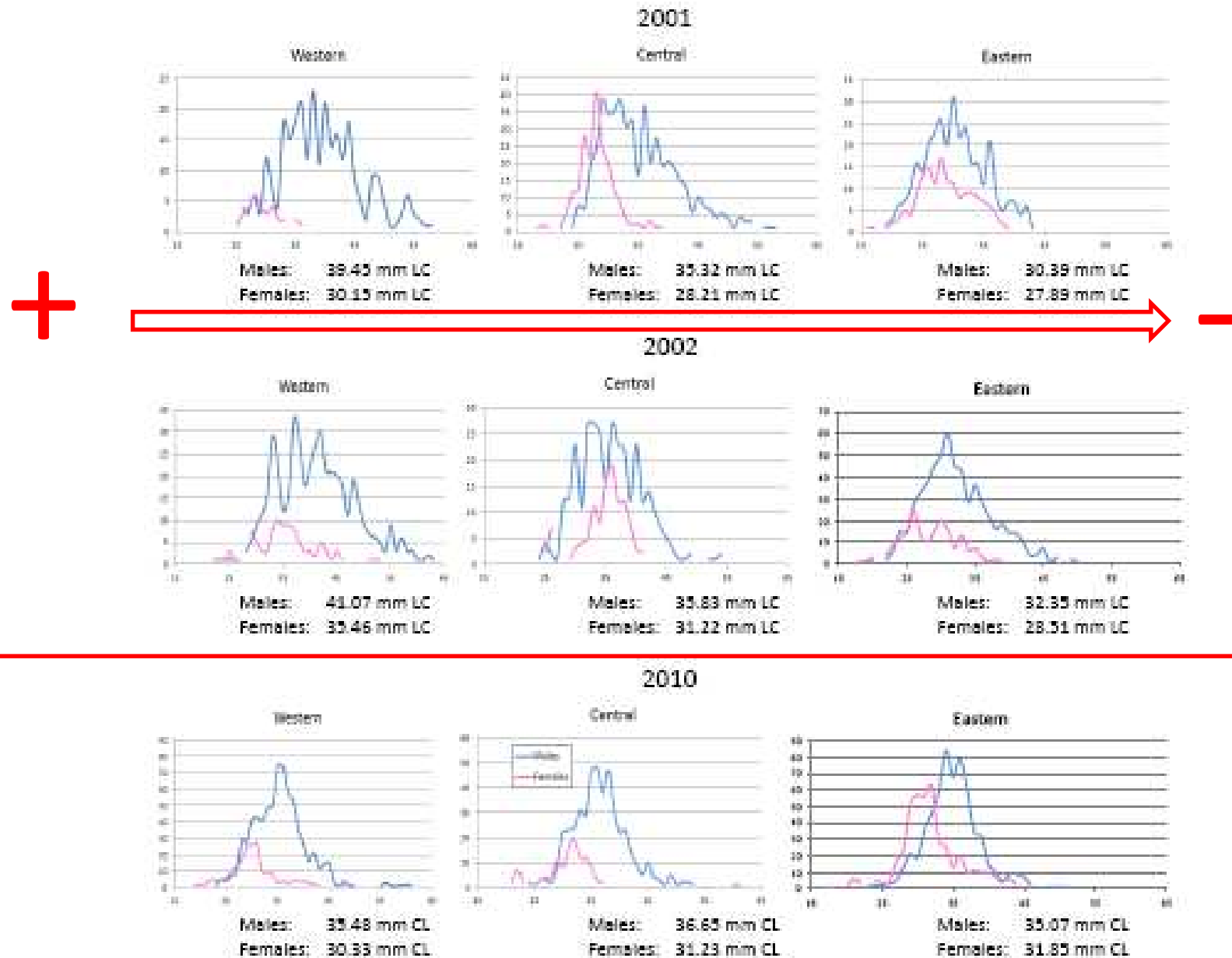


Figure 2.- *Nephrops* length distributions (number-length in mm LC) and mean lengths by sex and patch. Porcupine Surveys with higher number of *Nephrops* (2001, 2002 and 2010).

Table 2.- Size at 50% of females with spermatophore. NA: not available (all females presented spermatophore).

SPERMATOPHORE (SP) PRESENCE IN FEMALES							
Year	Survey		Sample				
	Total number of females	Females mean length (mm CL)	No of females with SP data	Females length range (mm CL)	Females mean length (mm LC)	Size at 50% SP (mm CL)	All % of SP by lenght in sample?
2001	467	28.4	176	15.9-45.6	30.0	24.1	YES
2002	355	31.2	328	16-46.5	30.9	21.1	No
2003	174	31.4	27	14.3-46.5	30.3	NA	No
2004	73	30.0	41	22.5-44.5	32.3	29.0	No
2005	42	33.3	25	23.6-45.2	34.3	26.1	No
2006	33	34.5	25	28.3-45.4	35.0	NA	No
2007	80	37.4	80	28.2-47.3	37.4	26.4	No
2008	39	38.2	37	29.8-46.5	38.8	NA	No
2009	354	28.3	317	10.6-48.3	29.4	38.0	YES
2010	954	31.3	392	17-49	32.9	24.6	No
2011	281	33.5	131	21-51	36.1	27.5	YES
2012	181	30.0	154	18.2-54.4	31.5	36.4	YES

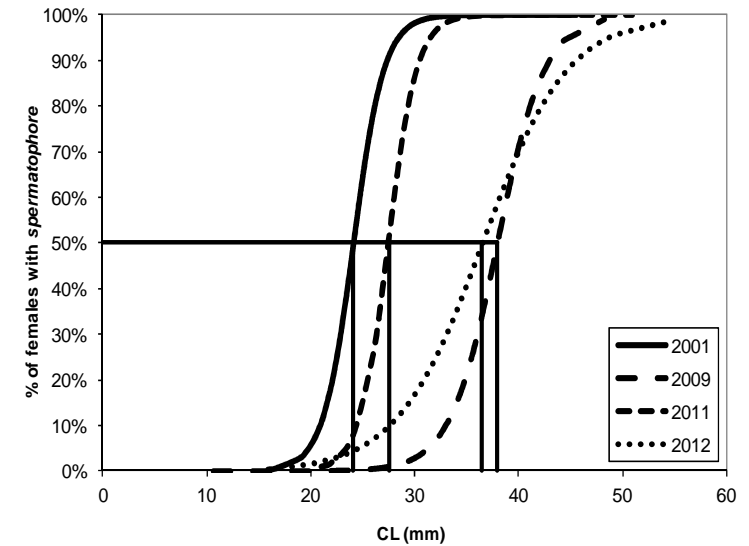


Figure 3.- Binary logistic regressions that relate proportion of females with spermatophore and length for each sample. Size at 50% SP: 2001, 24.1 mm CL; 2009, 38.0 mm CL; 2011, 27.5 mm CL; 2012, 36.4 mm CL.

SIZE AT MATURITY

CRITERION: SPERMATOPHORE PRESENCE

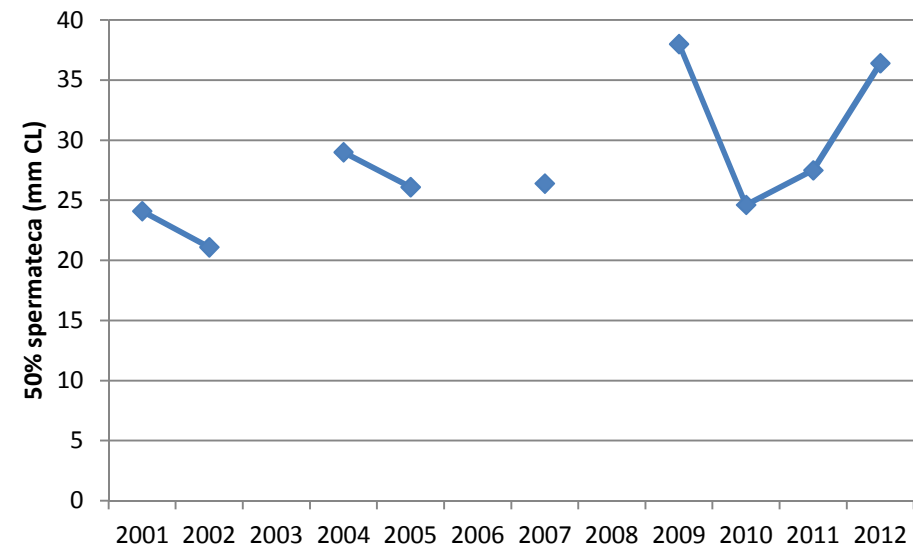


Table 3.- Size at 50% of mature females. NA: not available (all females are matured).

FEMALES MATURITY (MA)							
Year	Survey		Sample				
	Total number of females	Females mean length (mm CL)	No of females with maturity data	Females length range (mm CL)	Females mean length (mm LC)	Size at 50% MA (mm CL)	All % of MA by length in sample?
2001	467	28.4	177	15.9-45.6	30	29.9	YES
2002	355	31.2	322	16-46.5	30.9	27.7	YES
2003	174	31.4	74	16.5-46.5	31.1	28.6	YES
2004	73	30.0	41	22.5-44.5	32.3	31.4	YES
2005	42	33.3	25	23.6-45.2	34.3	28	No
2006	33	34.5	25	28.3-45.4	35	NA	No
2007	80	37.4	80	28.2-47.3	37.4	NA	No
2008	39	38.2	37	29.9-46.5	38.8	NA	No
2009	354	28.3	317	10.6-48.3	29.4	29.4	YES
2010	954	31.3	392	17-49	32.9	24.6	No
2011	281	33.5	130	21-51	36.1	28.1	No
2012	181	30.0	158	6.5-54.4	31.5	27.2	YES
Selecti on average	1604	29.6	1089	6.5-54.4	30.4	28.7	

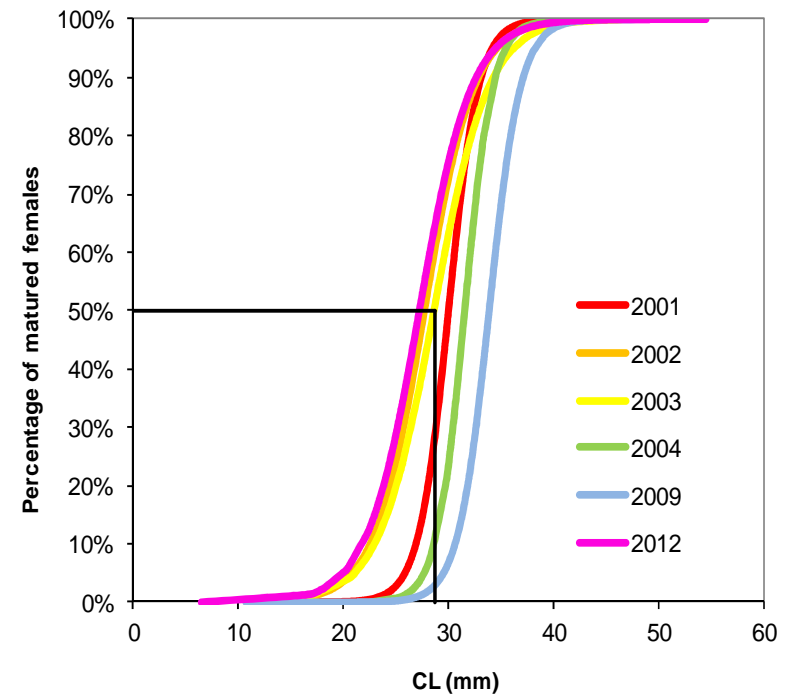


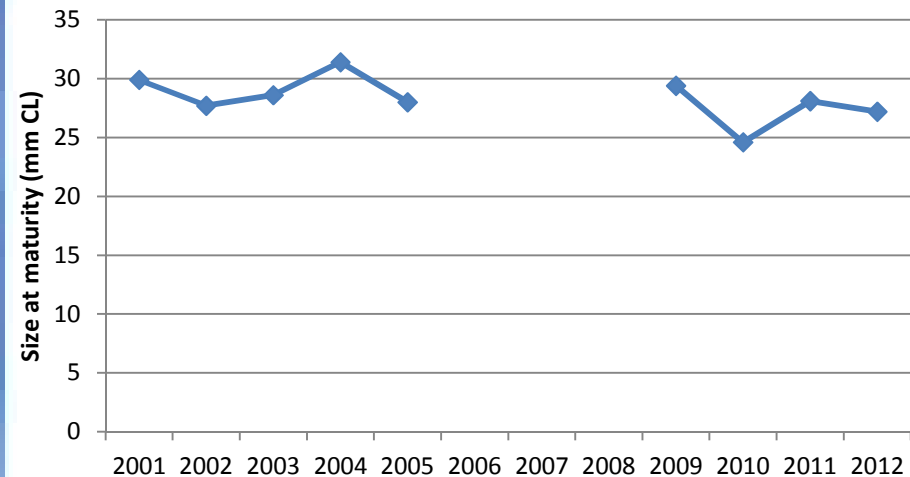
Figure 4.- Binary logistic regressions that relate proportion of matured females with length for each sample. Average size at maturity: 28.7 mm CL.

SIZE AT MATURITY

CRITERIA:

- PRESENCE OF EGGS
- OVARY STAGE ≥ 2 (ICES WKMSC 2009)

OVARY STAGE 2



Size at maturity by patch
(criteria: eggs & ovary stage)
Year 2012

